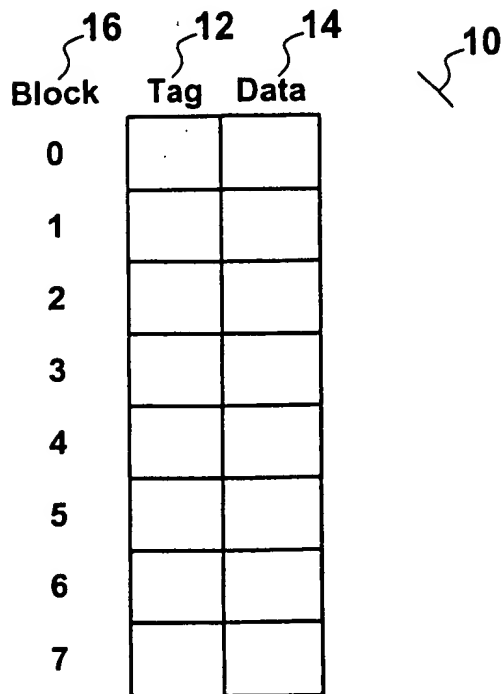
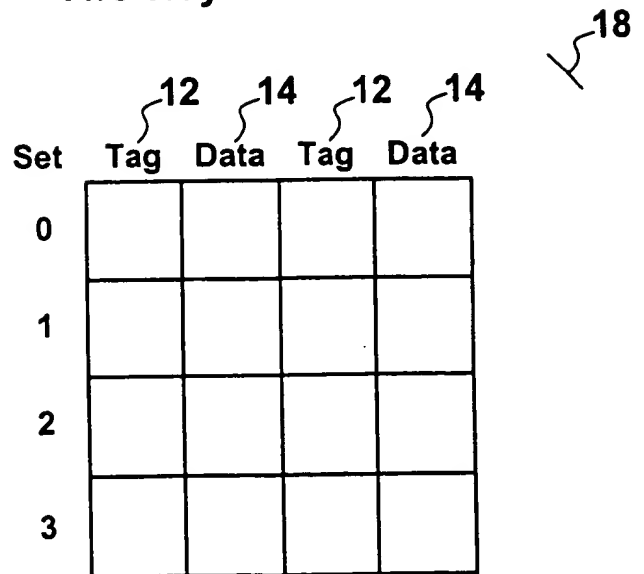


**One-Way Set Associative  
(direct mapped)**



**Fig. 1A  
(Prior Art)**

**Two-Way Set Associative**



**Fig. 1B  
(Prior Art)**

Four-Way Set Associative

20

Set	Tag	Data	Tag	Data	Tag	Data	Tag	Data
0								
1								

12 14

**Fig. 1C**  
(Prior Art)

Eight-Way Set Associative  
(fully associative)

22

Tag	Data	Tag	Data	Tag	Data	Tag	Data	Tag	Data	Tag	Data	Tag	Data	Tag	Data

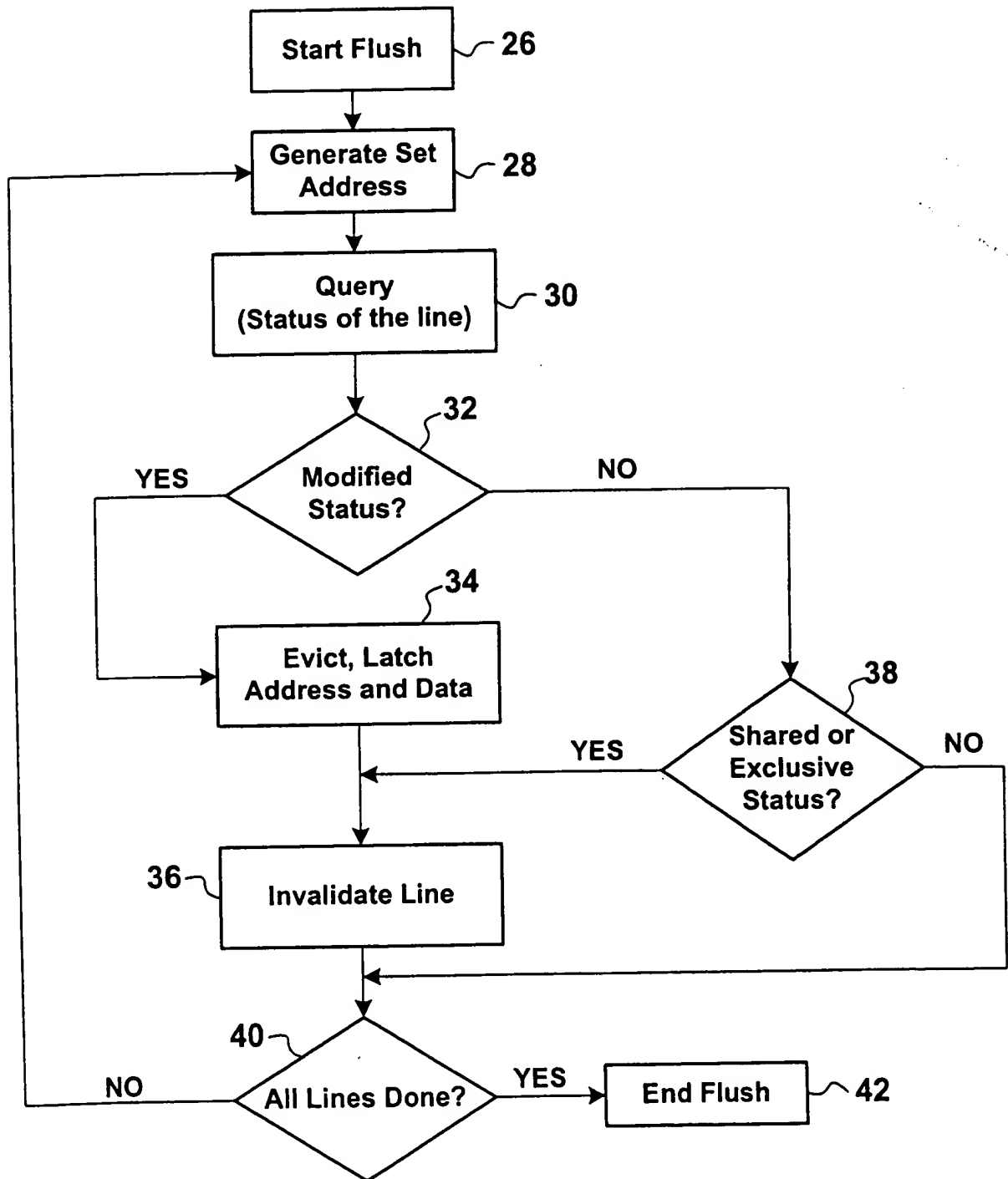
12 14

**Fig. 1D**  
(Prior Art)

24 12 14

Status	Tag	Data

**Fig. 1E**  
(Prior Art)



**Fig. 2**  
**(Prior Art)**

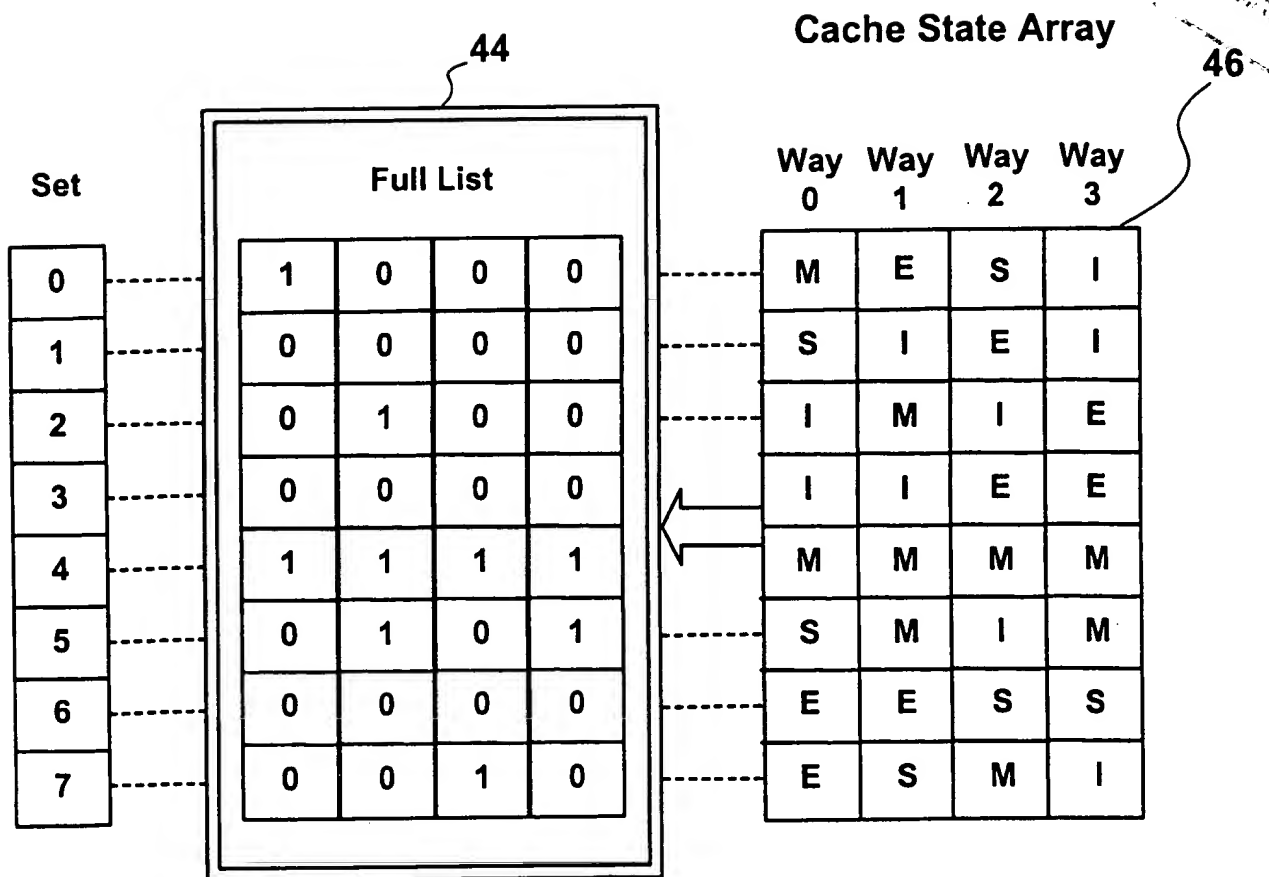
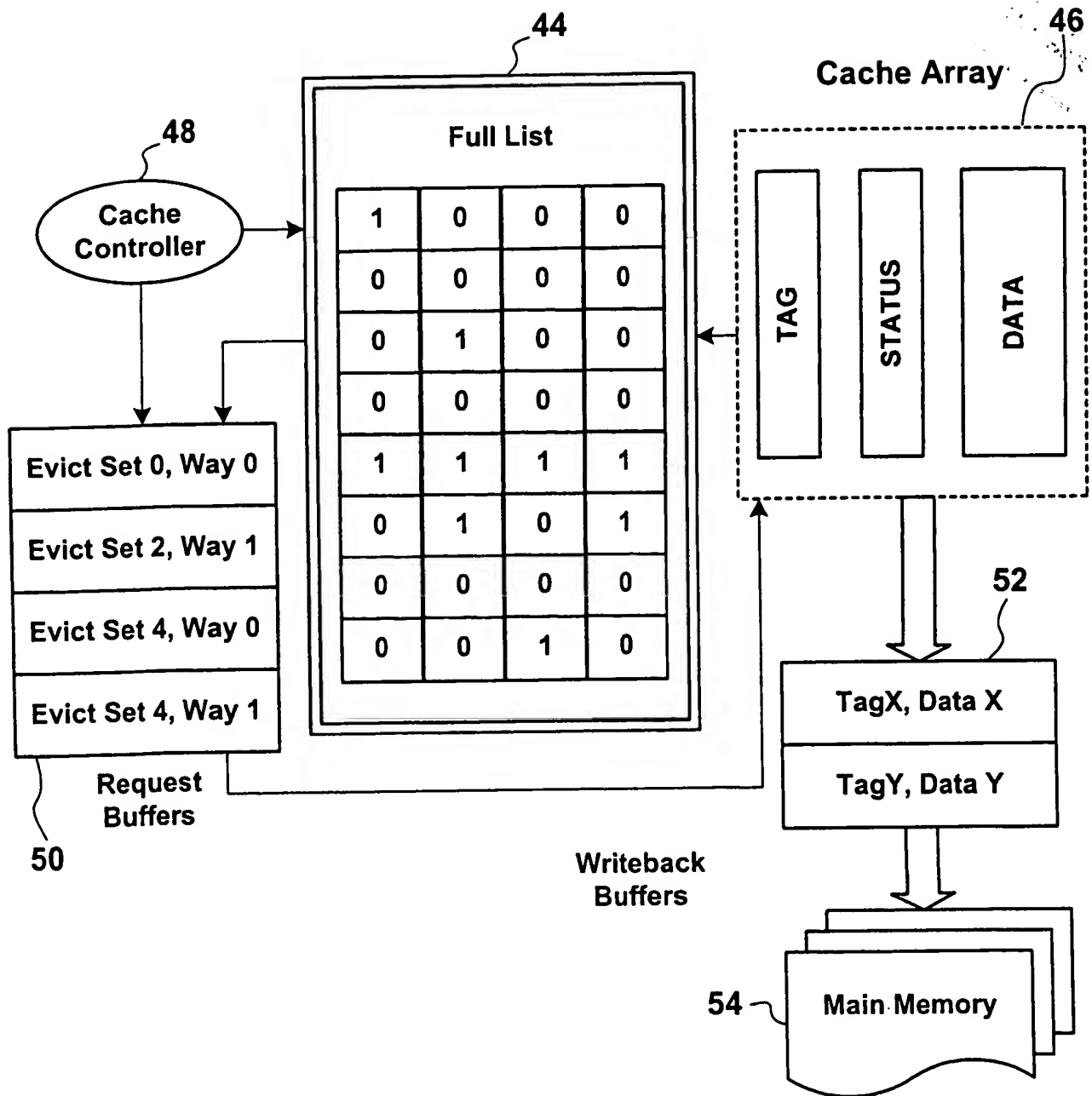
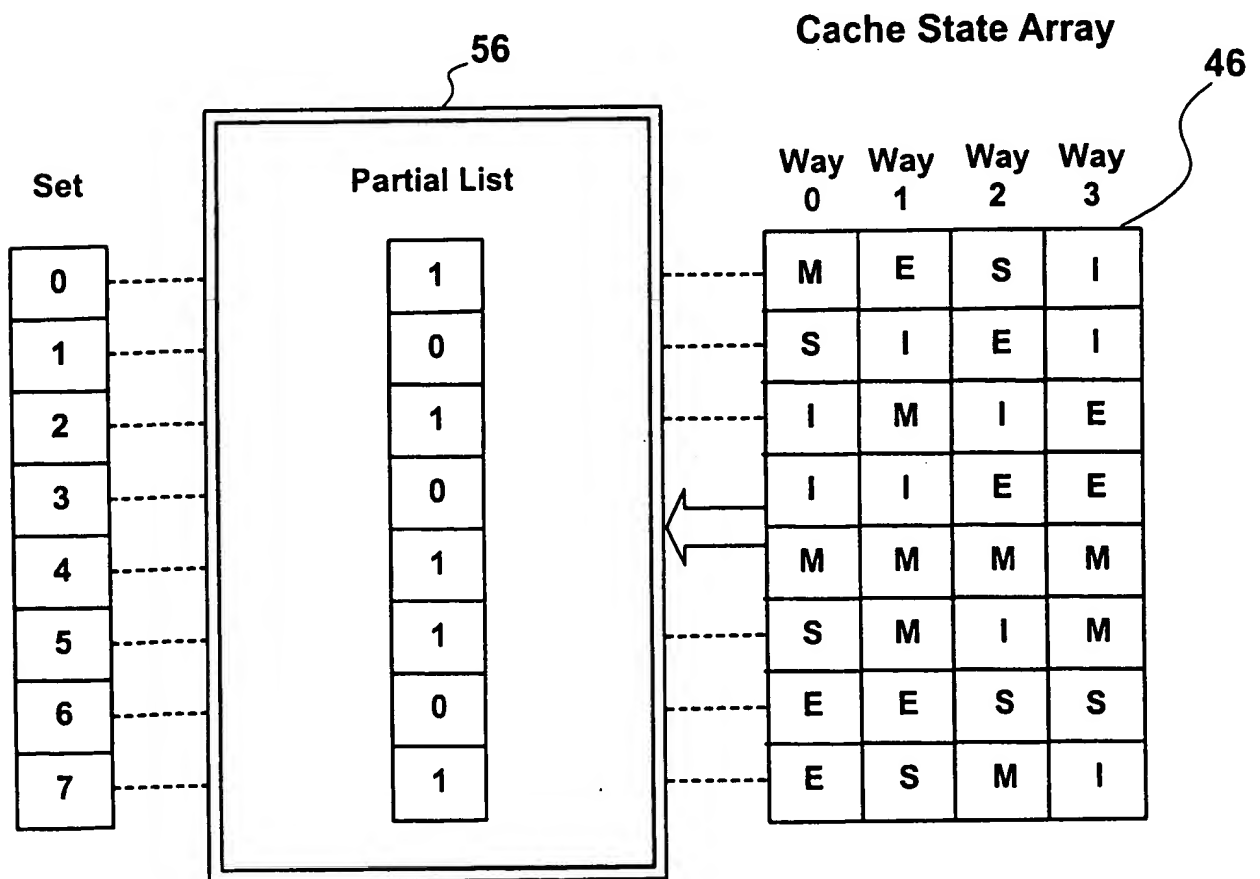
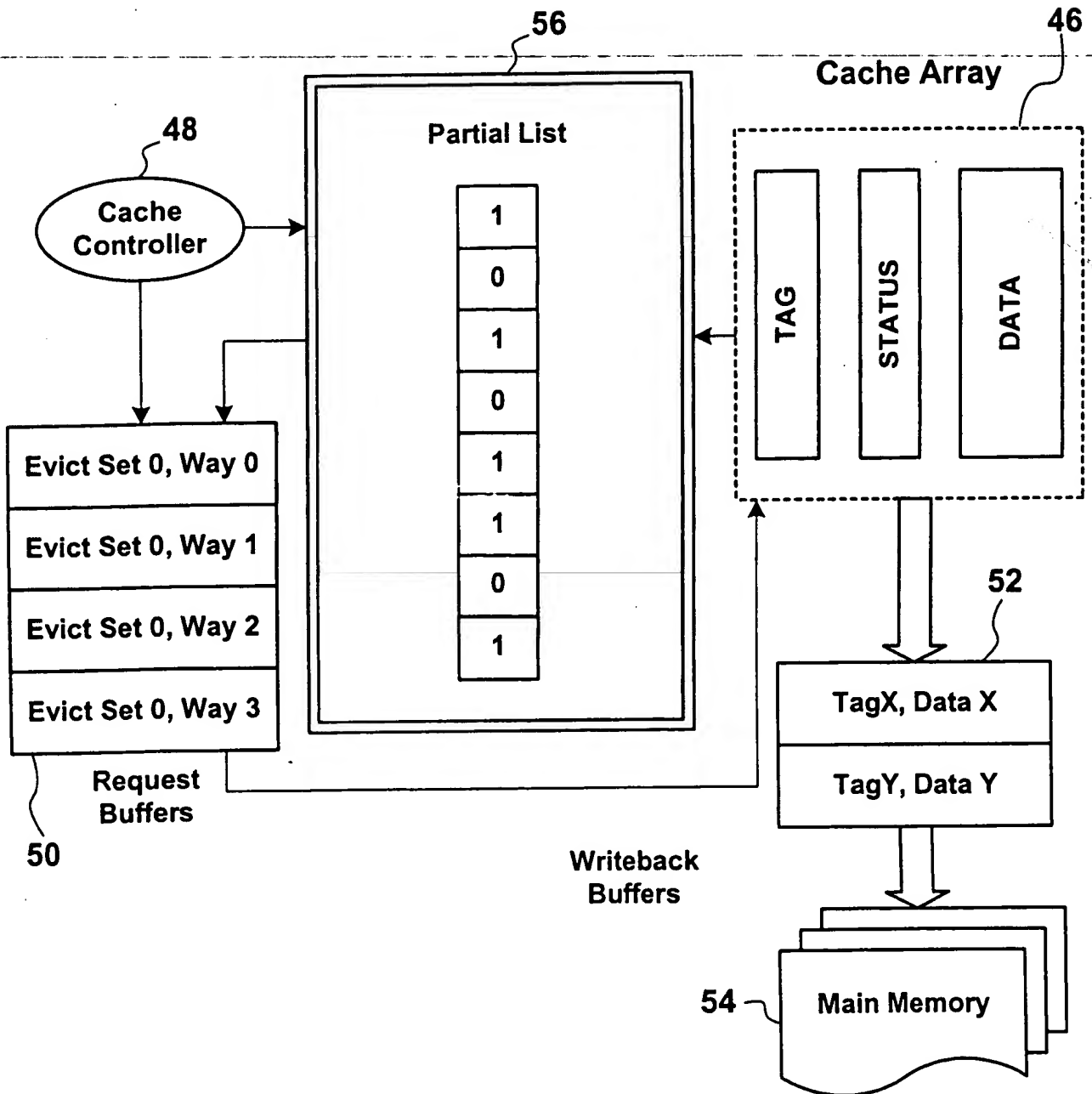
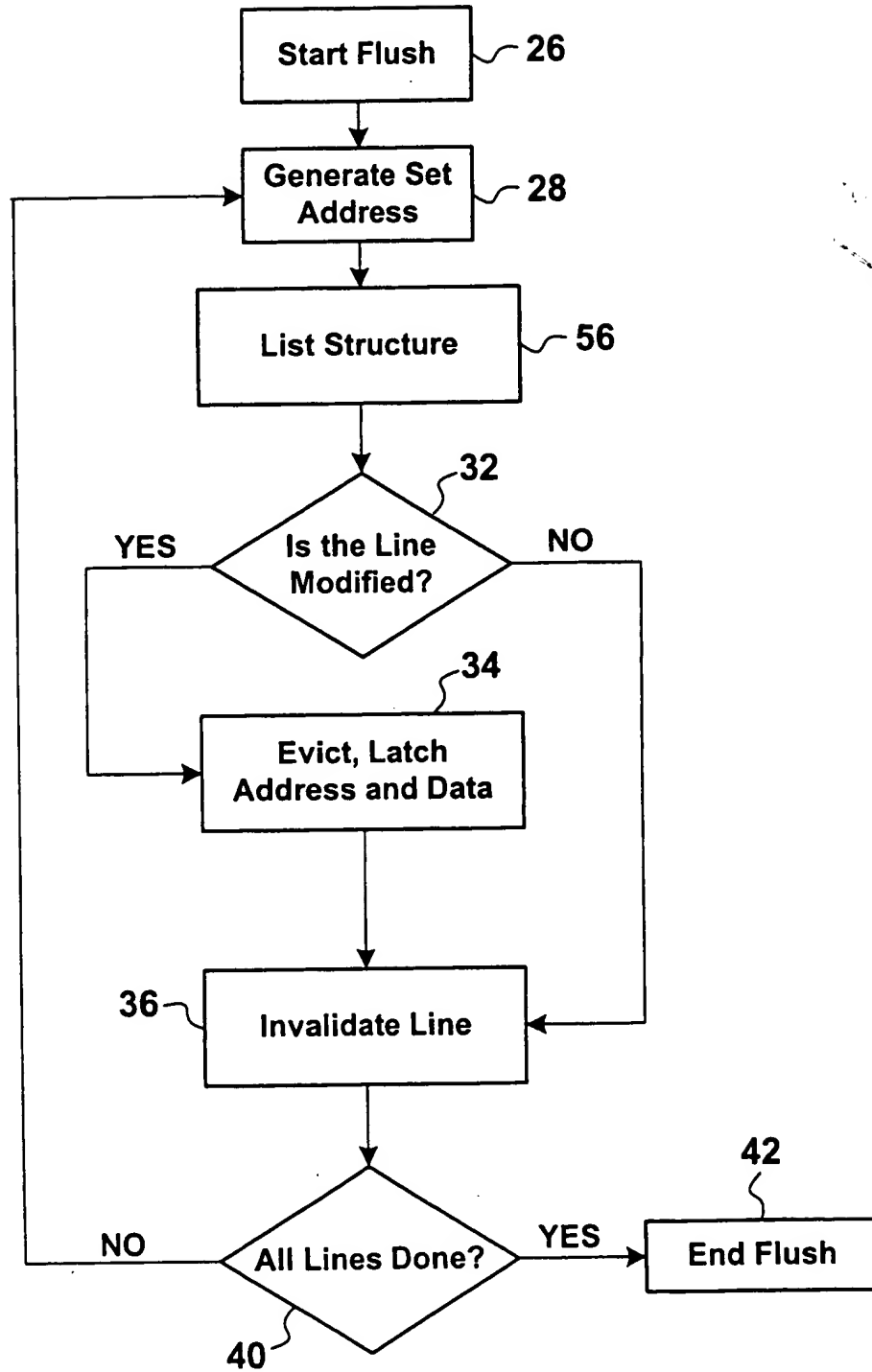


Fig. 3

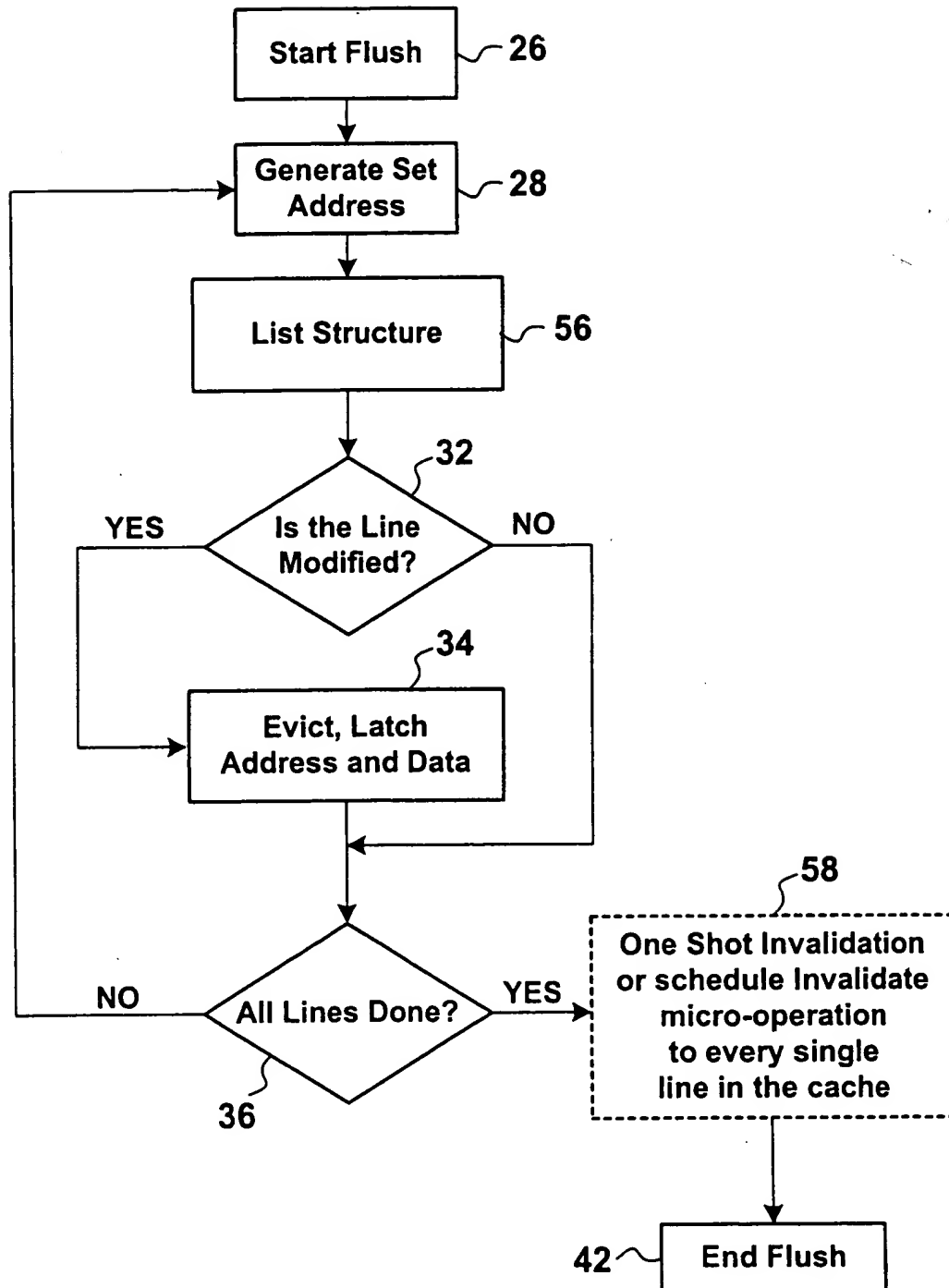
**Fig. 4**

**Fig. 5**

**Fig. 6**

**Fig. 7A**



**Fig. 7B**